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NOTICE OF ALLOWANCE AND FEE(S) DUE

27572 7590 0425/2008 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303 EXAMINER
CHEN, CHIA WEI A

ART UNIT PAPER NUMBER
2622

DATE MAILED: 04/25/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,120	01/22/2004	Hiroaki Nasu	9319S-000595	4176

TITLE OF INVENTION: IMAGE-PROCESSING DEVICE WITH IMAGE-PICKUP VALIDITY INDICATION AND PROCESSING METHOD THEREOF

THEREOF

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
27572 7590 04252008 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303					Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 272–2885, on the date indicated below.				
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		OR ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/763,120	01/22/2004			Hiroaki Nasu			9	9319S-000595	4176
TITLE OF INVENTION THEREOF	N: IMAGE-PROCESSI	NG I	DEVICE WITH	IMAGE-PICKUP VA	ALIE	DITY INDICATION	ON A	ND PROCESSING M	ÆTHOD
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	07/25/2008
EXAMI	NER		ART UNIT CLASS-SUBCLASS						
CHEN, CHI	A WEI A		2622	348-308000	_				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha 7122) attached. cation (or "Fee Address" c or more recent) attach TO RESIDENCE DATA sss an assignce is identi in 37 CFR 3.11. Comp	nge of 'Indica ed. Usa	Correspondence ation form e of a Customer		p to nativ ingle or a attor I be p r typ r typ ae pa	3 registered paten ely, firm (having as a gent) and the name neys or agents. If or orinted. e) tent. If an assignates assignment.	memb es of u no nam	er a 2	ocument has been filed for
Please check the appropria 4a. The following fee(s) as Issue Fee		catego		inted on the patent): D. Payment of Fee(s): (I	Pleas		_		
						I. Form PTO-2038	is atta	ched.	
				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	SMALL ENTITY statu	s. See	37 CFR 1.27.	☐ b. Applicant is no	long	er claiming SMAI	LEN	ITTY status. Sec 37 CF	
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeeords of the United Sta	iired) v tes Pat	will not be accepted ent and Trademark	d from anyone other the Office.	an th	e applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
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This collection of informa an application. Confidenti submitting the completed this form and/or suggestion Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPT den, sl NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in the Chief Information Of COMPLETED FORMS	or re s esti ndivi ffice S TC	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes mment Traden i. SENI	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,120	01/22/2004		Hiroaki Nasu	93198-000595	4176
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HARNESS, D	ICKEY	CHEN, CI	IIA WEI A		
P.O. BOX 828			ART UNIT	PAPER NUMBER	
BLOOMFIELD	HILLS,	MI 48303	2622		

DATE MAILED: 04/25/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 868 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 868 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/763,120	NASU, HIROAKI			
Examiner	Art Unit			
CHIA WELA CHEN	2622			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to the amendment filed 12/18/2007.
- The allowed claim(s) is/are 5-10,13,16-21,24 and 25.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date _______

 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other .

/Naoc-Yen T. Vu/

Supervisory Patent Examiner - 2622

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 5-10, 13, 16-21, 24, and 25 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

As to claim 5, the prior art fails to disclose or suggest " An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of pixels arranged in a matrix, each pixel of the plurality of pixels including a photo diode and a transistor that detects a light signal; and

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal:

the solid-state image-pickup device having an output circuit that outputs a valid signal to the signal-processing unit, the valid signal indicating whether the output signal from the solid-state image-pickup device is valid or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal makes the valid signal deactivated at a time when at least one of an idle frame, an accumulation frame, an interlacing frame and an H blanking period is activated."

As to claim 7, the prior art fails to disclose or suggest " An imageprocessing device, comprising: a solid-state image-pickup device provided with a plurality of pixels arranged in a matrix, each pixel of the plurality of pixels including a photo diode and a transistor that detects a light signal; and

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal;

the solid-state image-pickup device having an output circuit that outputs a valid signal to the signal-processing unit, the valid signal indicating whether the output signal from the solid-state image-pickup device is valid or not in response to an operation of the solid-state image-pickup device.

wherein the output circuit outputting the valid signal makes the valid signal deactivated at a time when at least one of an idle frame, an accumulation frame, an interlacing frame, an H blanking period and a period for indicating a final line counted value is activated."

As to claim 9, the prior art fails to disclose or suggest " An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of pixels arranged in a matrix, each pixel of the plurality of pixels including a photo diode and a transistor that detects a light signal; and

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal:

the solid-state image-pickup device having an output circuit that outputs a valid signal to the signal-processing unit, the valid signal indicating whether the output signal from the solid-state image-pickup device is valid or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal makes the valid signal activated at a time when all of an idle frame, an accumulation frame, an interlacing frame, an H blanking period and a period for indicating a final line counted value are deactivated and a period for reading out an image signal from a line memory is activated."

As to claim 13, the prior art fails to disclose or suggest " An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of pixels arranged in a matrix, each pixel of the plurality of pixels including a photo diode and a transistor that detects a light signal; and

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal:

the solid-state image-pickup device having an output circuit that outputs a valid signal to the signal-processing unit, the valid signal indicating whether the output signal from the solid-state image-pickup device is valid or not in response to an operation of the solid-state image-pickup device.

wherein the output circuit outputting the valid signal increases a deactivated rate of the valid signal intermittently as a frame unit in response to a decreasing frame rate when the solid-state image-pickup device is operated with a low frame rate."

As to claim 16, the prior art fails to disclose or suggest "An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of unit pixels arranged in a matrix, each unit pixel including a photo diode and a transistor for detecting a light signal;

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal; and

an output circuit, arranged in the solid-state image-pickup device, that outputs a valid signal to the signal-processing unit, the valid signal controlling whether the signal-processing unit performs the signal processing operation or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal makes the valid signal deactivated at a time when at least one of an idle frame, an accumulation frame, an interlacing frame and an H blanking period is activated."

As to claim 18, the prior art fails to disclose or suggest "An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of unit pixels arranged in a matrix, each unit pixel including a photo diode and a transistor for detecting a light signal;

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal; and

an output circuit, arranged in the solid-state image-pickup device, that outputs a valid signal to the signal-processing unit, the valid signal controlling whether the signal-processing unit performs the signal processing operation or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal makes the valid signal deactivated at a time when at least one of an idle frame, an accumulation frame, an interlacing frame, an H blanking period and a period for indicating a final line counted value is activated."

As to claim 20, the prior art fails to disclose or suggest " An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of unit pixels arranged in a matrix, each unit pixel including a photo diode and a transistor for detecting a light signal;

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal; and

an output circuit, arranged in the solid-state image-pickup device, that outputs a valid signal to the signal-processing unit, the valid signal controlling whether the signal-processing unit performs the signal processing operation or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal makes the valid signal activated, at a time when all of an idle frame, an accumulation frame, an interlacing frame, an H blanking period and a period for indicating a final line counted value are deactivated and a period for reading out an image signal from a line memory is activated."

As to claim 24, the prior art fails to disclose or suggest "An imageprocessing device, comprising:

a solid-state image-pickup device provided with a plurality of unit pixels arranged in a matrix, each unit pixel including a photo diode and a transistor for detecting a light signal;

a signal-processing unit that processes an output signal from the solidstate image-pickup device and outputs the processed signal as an image signal; and

an output circuit, arranged in the solid-state image-pickup device, that outputs a valid signal to the signal-processing unit, the valid signal controlling whether the signal-processing unit performs the signal processing operation or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal increases a deactivated rate of the valid signal intermittently as a frame unit in

response to a decreasing frame rate when the solid-state image-pickup device is operated with a low frame rate."

As to claim 25, the prior art fails to disclose or suggest "A solid-state image-pickup device, comprising:

a plurality of pixels arranged in a matrix, each pixel of the plurality of pixels including a photo diode and a transistor that detects a light signal; and

an output circuit that outputs a valid signal to a signal-processing unit, the valid signal indicating whether an output of a signal-processing unit is valid or not in response to an operation of the solid-state image-pickup device,

wherein the output circuit outputting the valid signal increases a deactivated rate of the valid signal intermittently as a frame unit in response to a decreasing frame rate when the solid-state image-pickup device is operated with a low frame rate."

Claims 6, 8, 10, 17, 19, and 21 are allowed as being dependent upon the allowed claims 5, 7, 9, 16, 18, and 20, respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHIA-WEI A. CHEN whose telephone number is (571)270-1707. The examiner can normally be reached on Monday - Friday, 7:30 - 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NgocYen Vu can be reached on (571) 272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chia-Wei A Chen/ Examiner, Art Unit 2622